

WHAT IS CLAIMED IS:

1. A suction muffler of a reciprocating compressor comprising:

a muffler body having a suction port connected to a refrigerant
suction pipe, a discharge port, and a resonator;

5 a muffler base connected to the discharge port for inducing
refrigerant discharged through the discharge port to flow into a
cylinder; and

a flow controller disposed in the suction port for controlling and
steadying flow of refrigerant into the suction port.
- 10 2. The suction muffler of a reciprocating compressor according to
claim 1 wherein the flow controller comprises:

a fixing member having a main refrigerant path, a plurality of
refrigerant sub-paths formed to vertically penetrate the fixing member
along and adjacent to the main refrigerant path at predetermined
15 intervals, and a space with a diameter larger than an imaginary circle
made by connecting the plurality of refrigerant sub-paths, formed
under the main refrigerant path and the plurality of refrigerant sub-
paths;

a movable member having a first through hole formed to correspond to the main refrigerant path, and a plurality of second through holes formed at predetermined intervals on the imaginary circumference having a diameter larger than an imaginary circle made
5 by connecting the plurality of refrigerant sub-paths, disposed in the space of the fixing member to move between a first location for closing the plurality of refrigerant sub-paths and a second location for opening the plurality of refrigerant sub-paths; and

a resilient member resiliently supporting the movable member
10 and biasing that member towards the second location.

3. The suction muffler of a reciprocating compressor according to claim 2, wherein the movable member comprises a guide with the outer circumferential surface sliding and touching the inner circumferential surface of the main refrigerant path, the guide formed with the first
15 through hole, and a disk of a predetermined thickness with the outer circumferential surface sliding and touching the inner circumferential surface of the space, the disk formed with a plurality of through holes.

4. The suction muffler of a reciprocating compressor according to

claim 3, wherein the movable member is supported by the suction pipe connected to the suction port, and rises and moves toward the first location when an excessive amount of refrigerant flows in.

5 5. The suction muffler of a reciprocating compressor according to claim 2, wherein the resilient member is a compression coil spring disposed in the main refrigerant path.